

Lunar Flywheel weekly meeting- Minutes

Wednesday; September 28, 2016; 3:30pm

Present: Dr. Herb Hess, Dr. Feng Li, Justin Petigill, David Arnett, Nick Bachus, Matt Phillips, Kyle Petersen, Cooper Atkinson, Ian Tanimoto, Andrew Jones, Brian Cartwright

Absent: Shea Morrison

GJ 218 Conference Room

Moderator: Ian Tanimoto

Update from weekly Tuesday Meeting with Dr. Berven

Expectations (for larger project context):

Low Speed

- Balance Flywheel Mount Position sensors (requires design of mounts)

- Resolve issues with flywheel hitting resonant frequency

- Hoses for Liquid Nitrogen/water coolant

- Thermocouples installed

- Purchase rotational position encoder

- Program user interface

High speed

- Stator Design, Controls system

- Come up with goals/standards (senior design) soon

- Weekly updates on all work

- Fail safe design

Work spaces will be cleared in lab for teams to work

Shea and Nick will have keys to lab soon

Senior Design Items

- Client Interview transcript/target specs due tomorrow (9/29)

Ian needs to be added to email list

MEs met last week to discuss what input parameters they need to generate model

EEs work last week on permeability calculations (needs to be re-worked to have accurate numbers)

Professional version of Ansys may be available through Dr. Tao Xing

Everyone now has access to Shared Drive through UI network

Presentations for theses sections

Nick Bachus- Ch. 8: Dynamic model from Bridget Wimer's thesis

Matt Phillips- Ch. 5: Mechanical Design from Bridget Wimer's Thesis

Kyle Petersen- Ch. 3: Stress/displacement model from Brenden Kaschmitter's thesis

Cooper Atkinson- Senior Design Final report from 2011-2012

Next week:

Finish up presentations

Meet with individual teams

Logbooks due next Tuesday